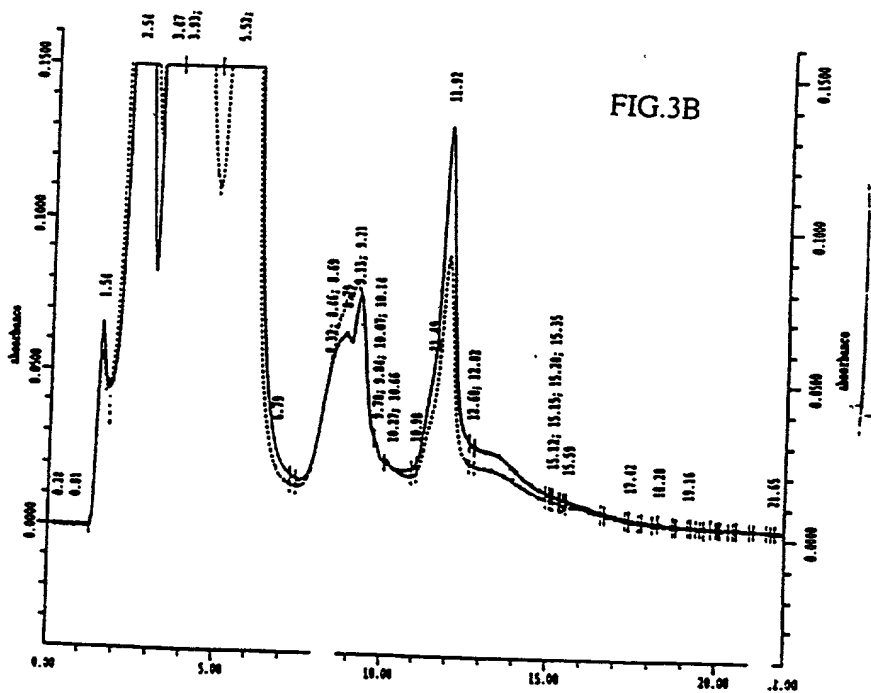
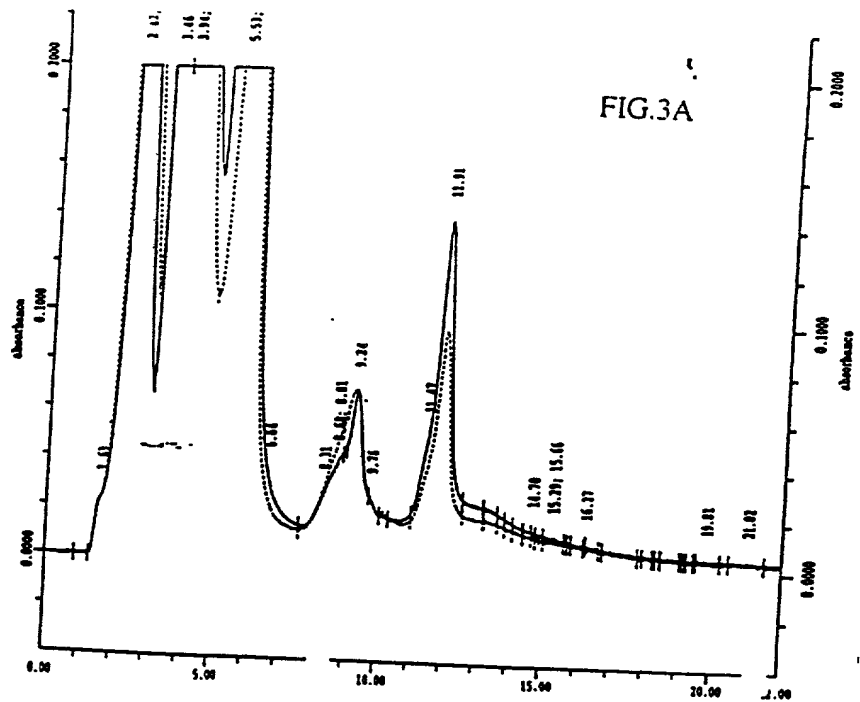


FIG. 2



When plotting of two sets of data, the  
 the first set of data is plotted  
 the second set of data is plotted

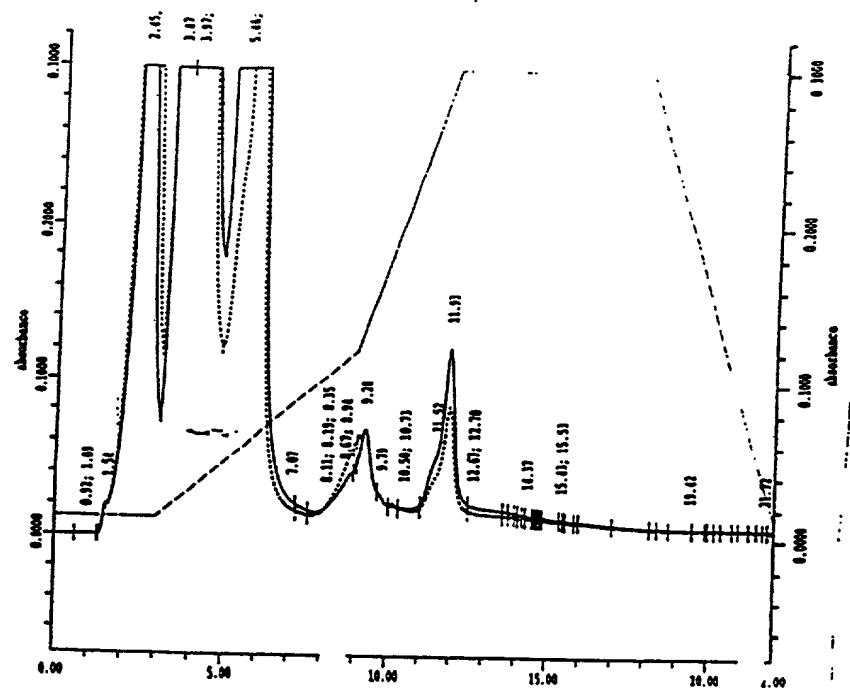


FIG.3C

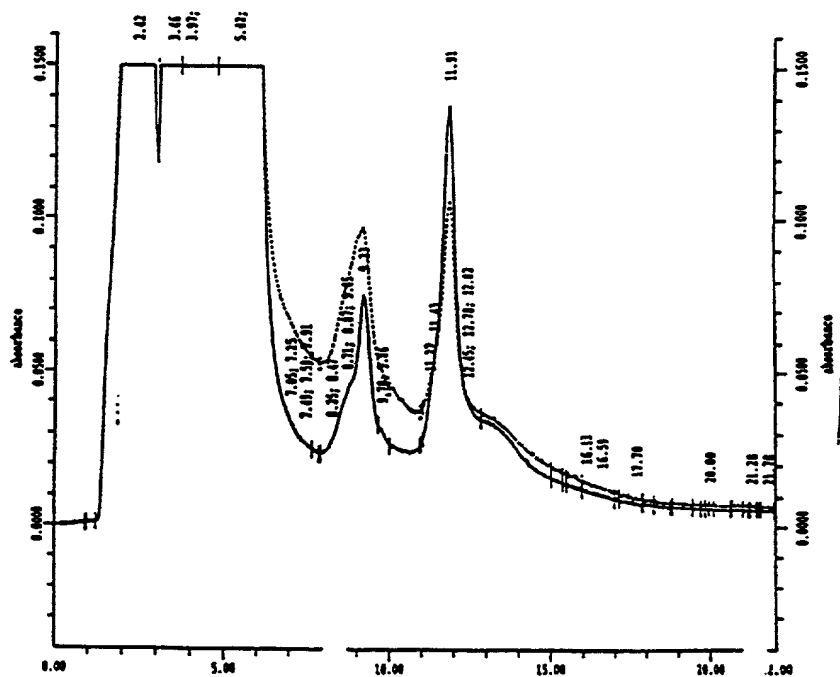


FIG.3D

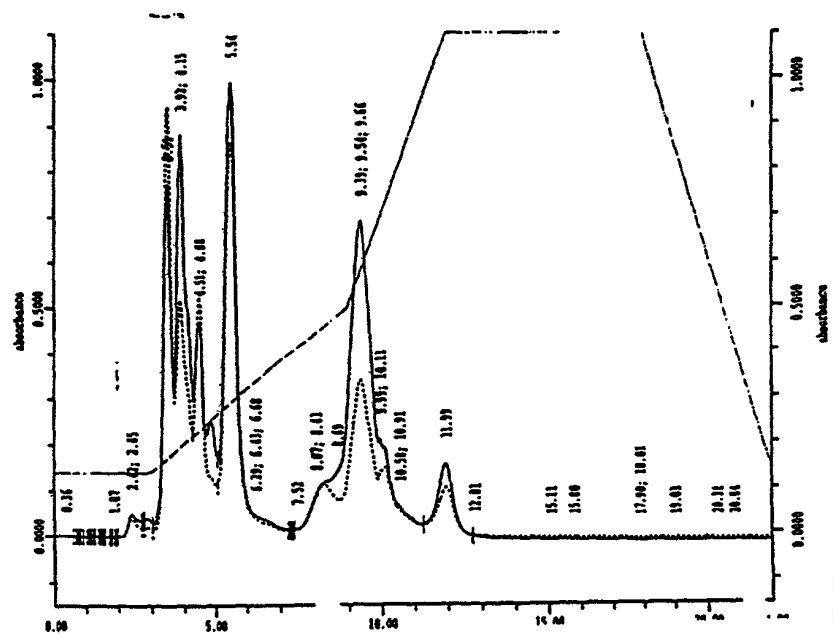
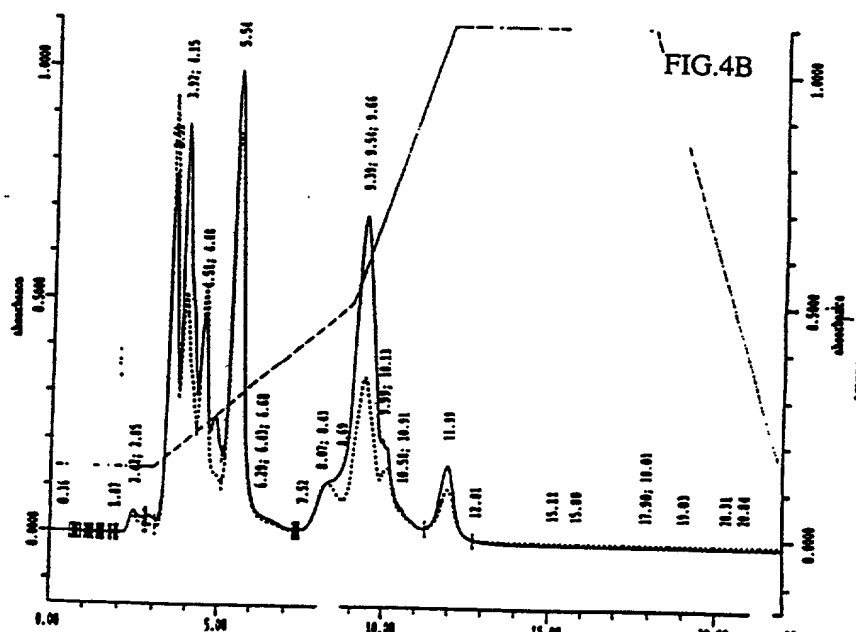
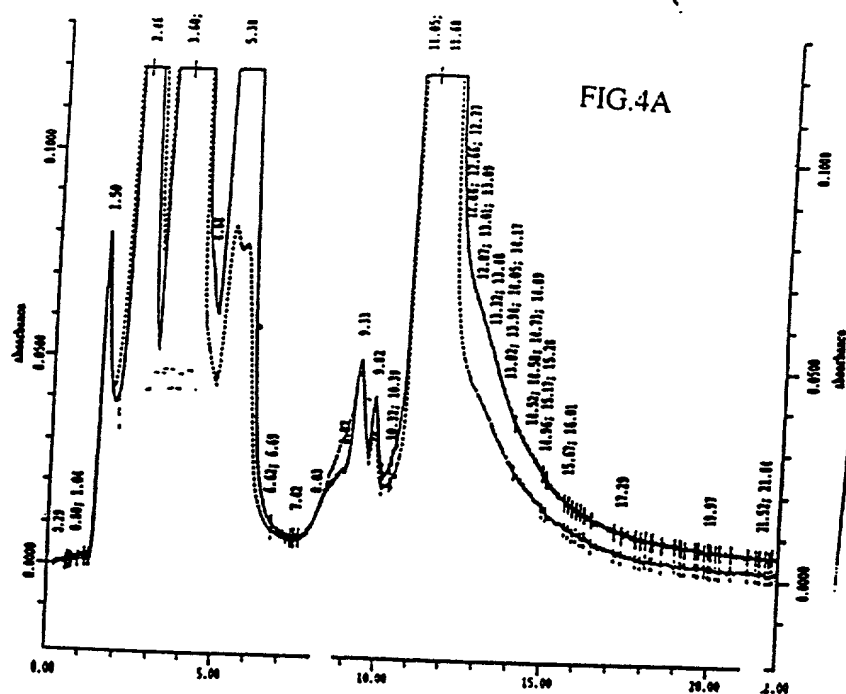


FIG.3E

Year	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	



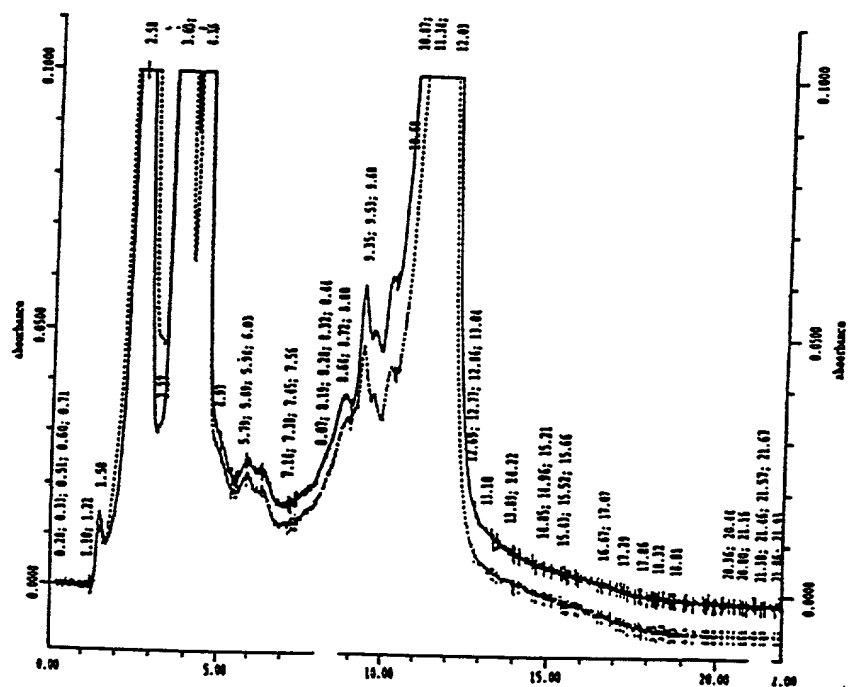


FIG.5

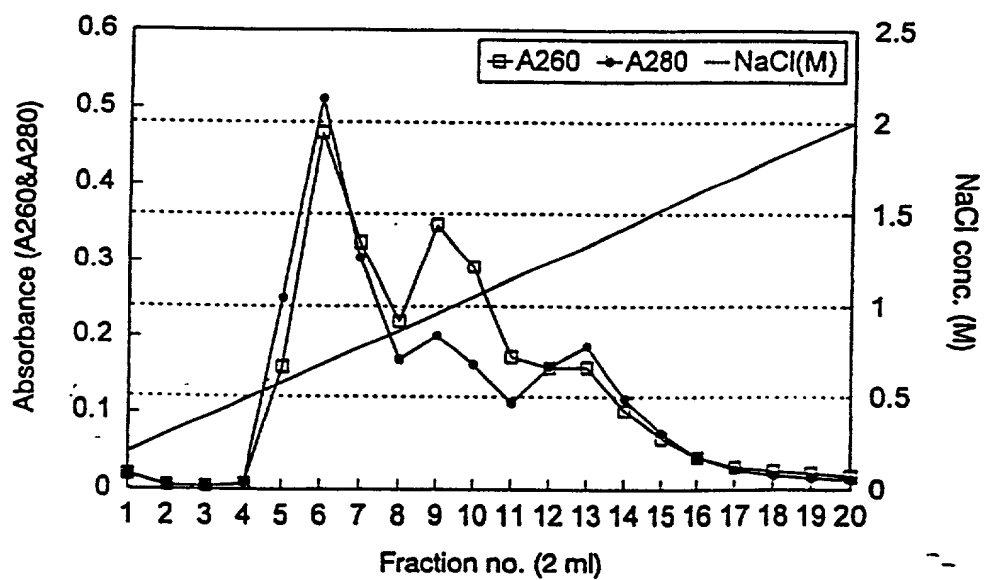


FIG.6



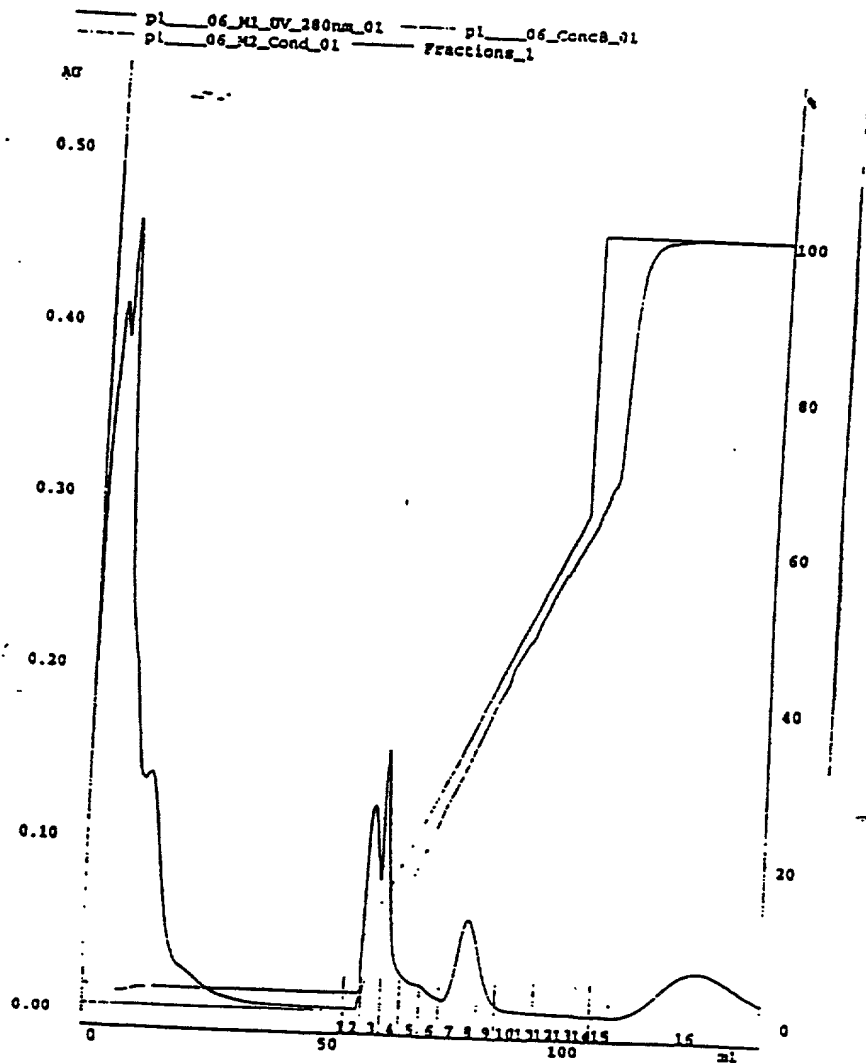
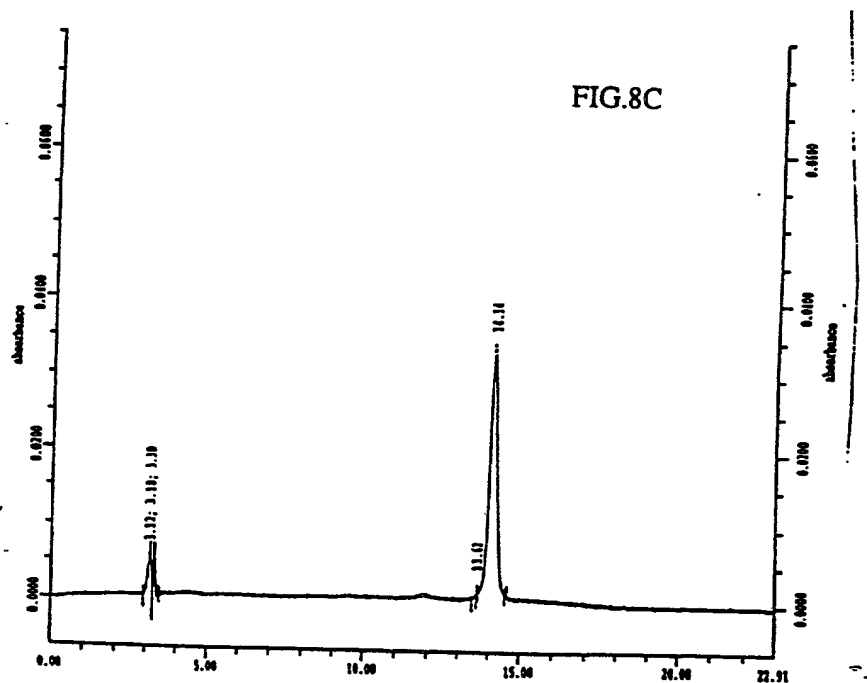


FIG.7



22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 10



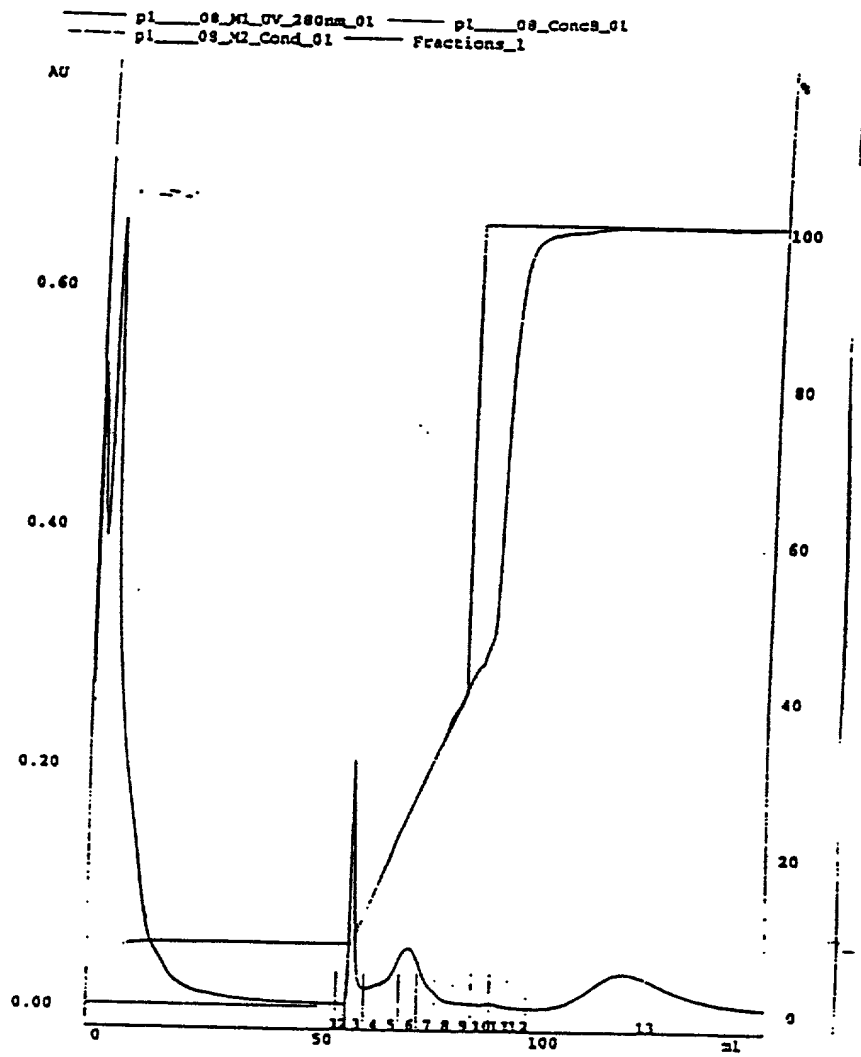
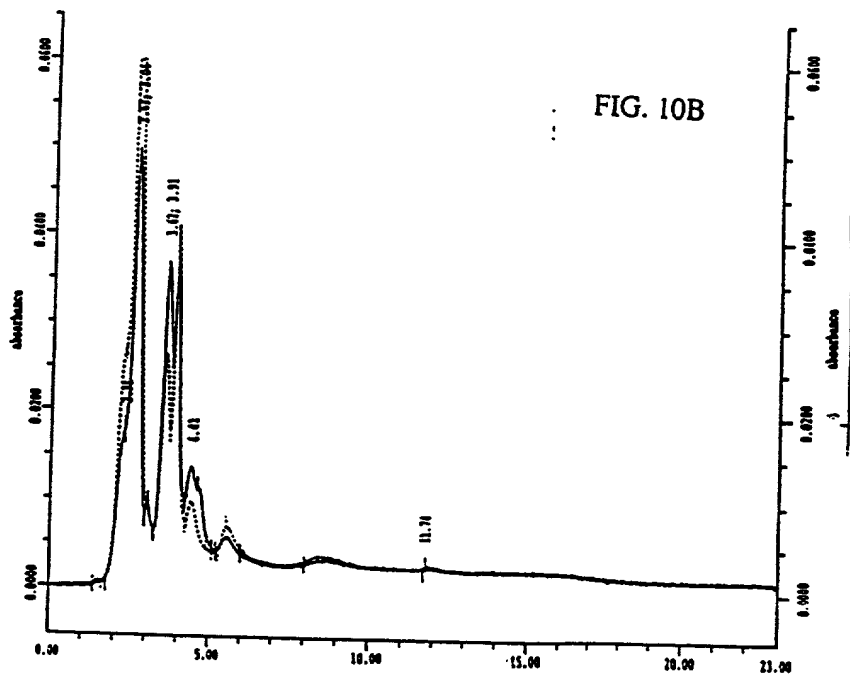
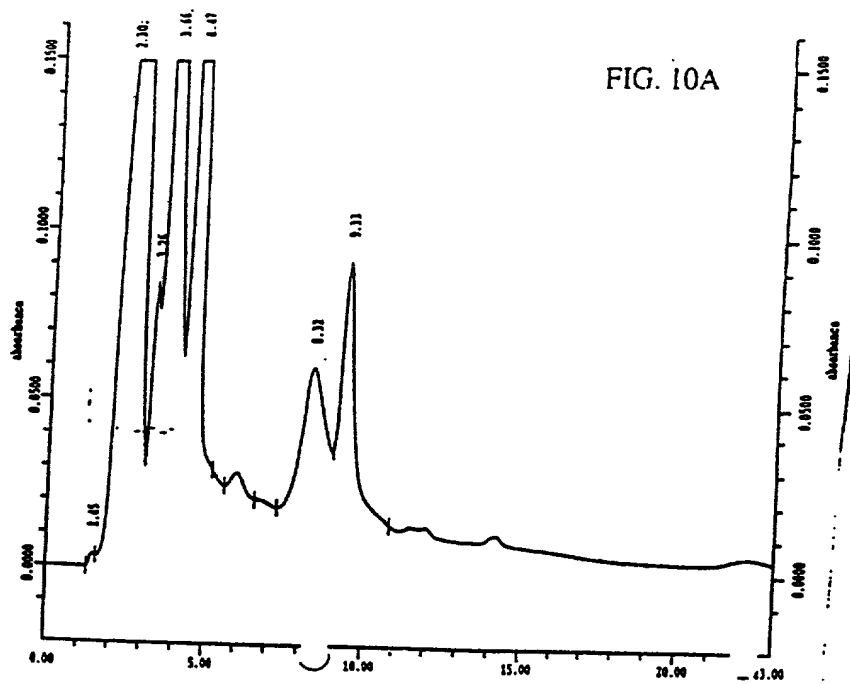
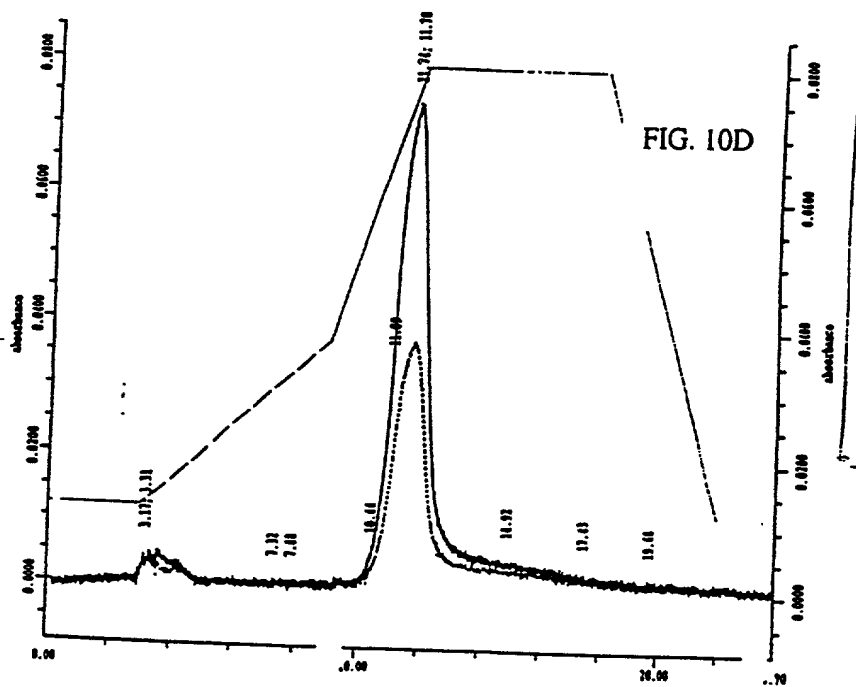
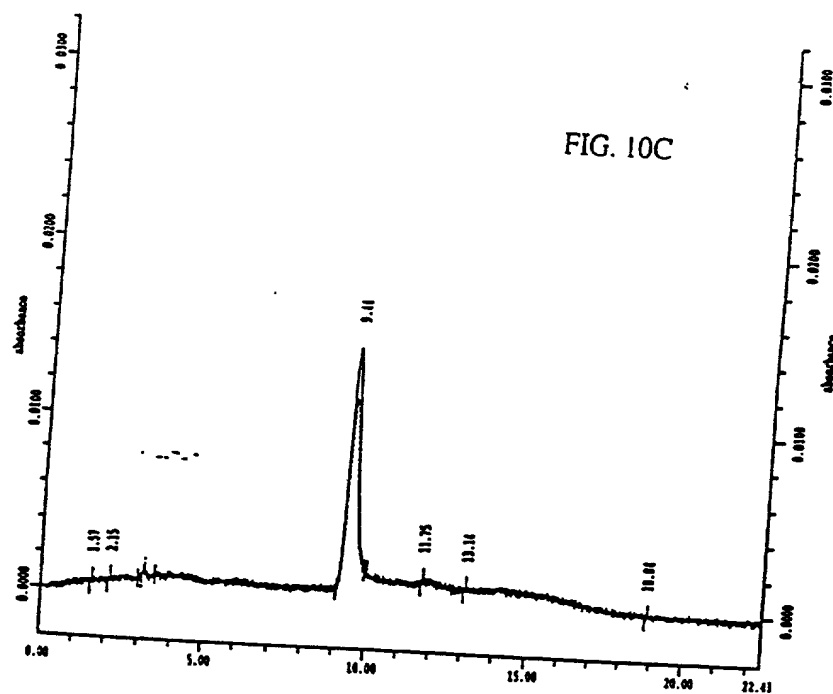
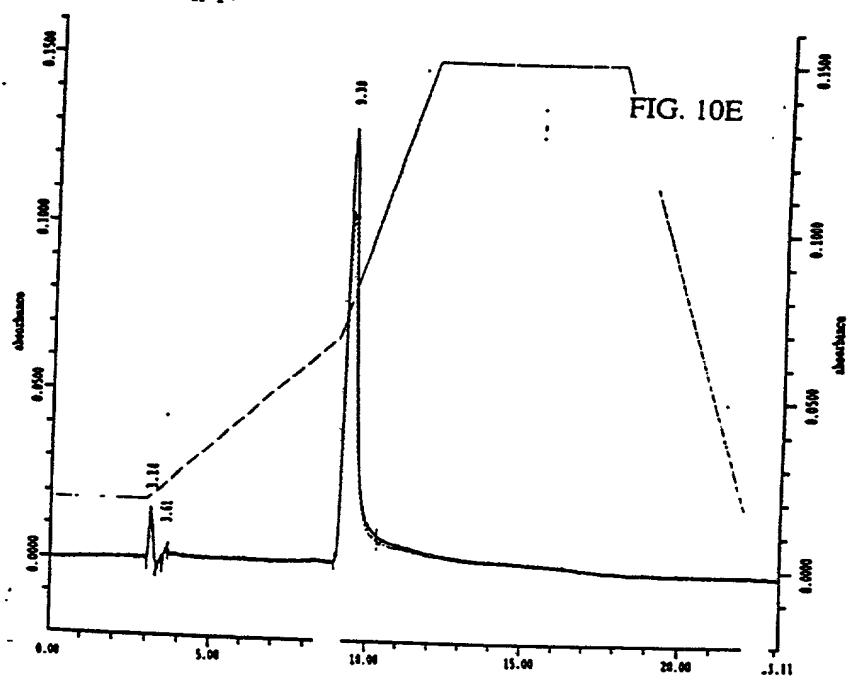


FIG. 9

0.0000 0.0500 0.1000 0.1500  
0.00 5.00 10.00 15.00 20.00 25.00







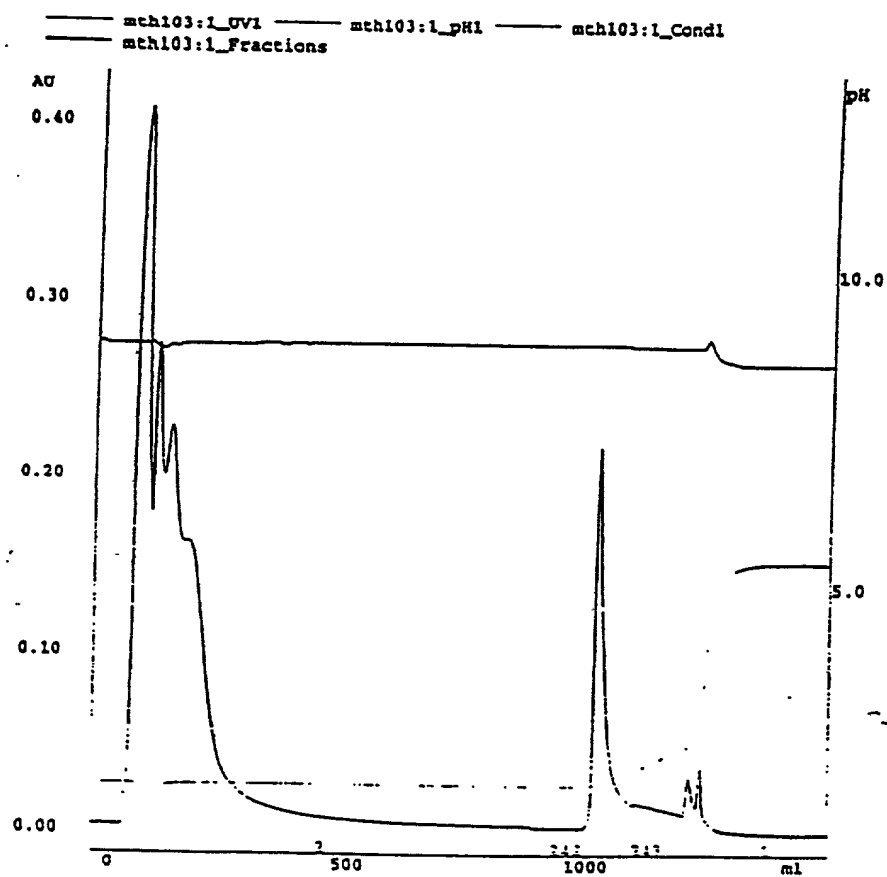


FIG. 11



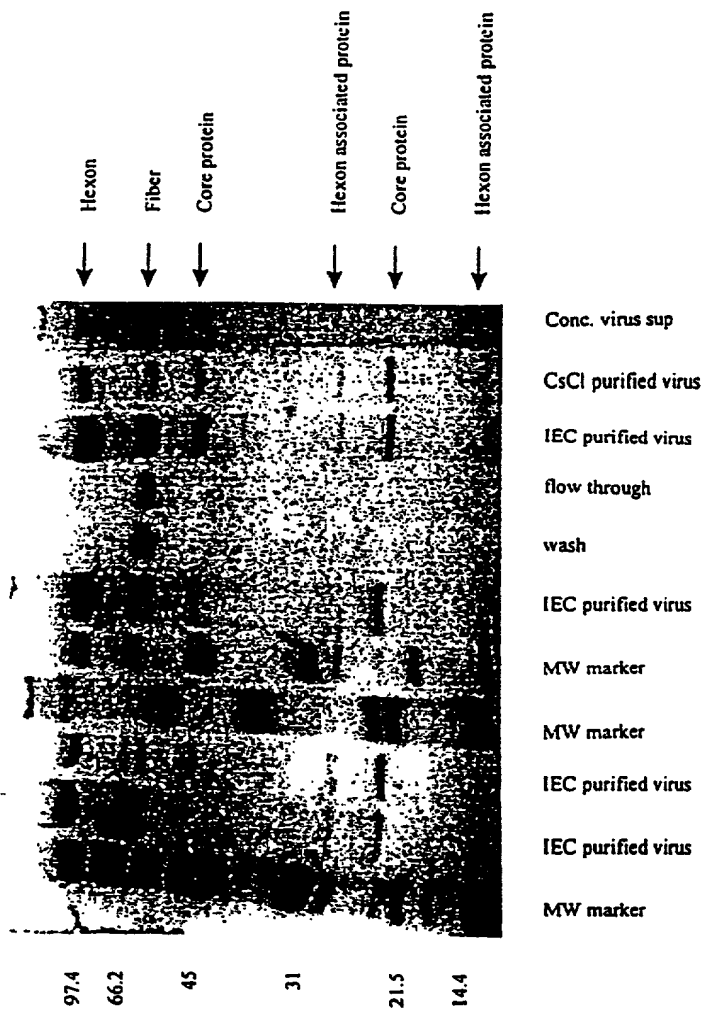


FIG. 12

66.2 kd

Novex MWM

BSA Std

Vector sup

Conc./diafil. sup

IEC purified Adp53

CsCl purified Adp53

BSA Std

Flow thru

Wash

Novex MWM

FIG. 13

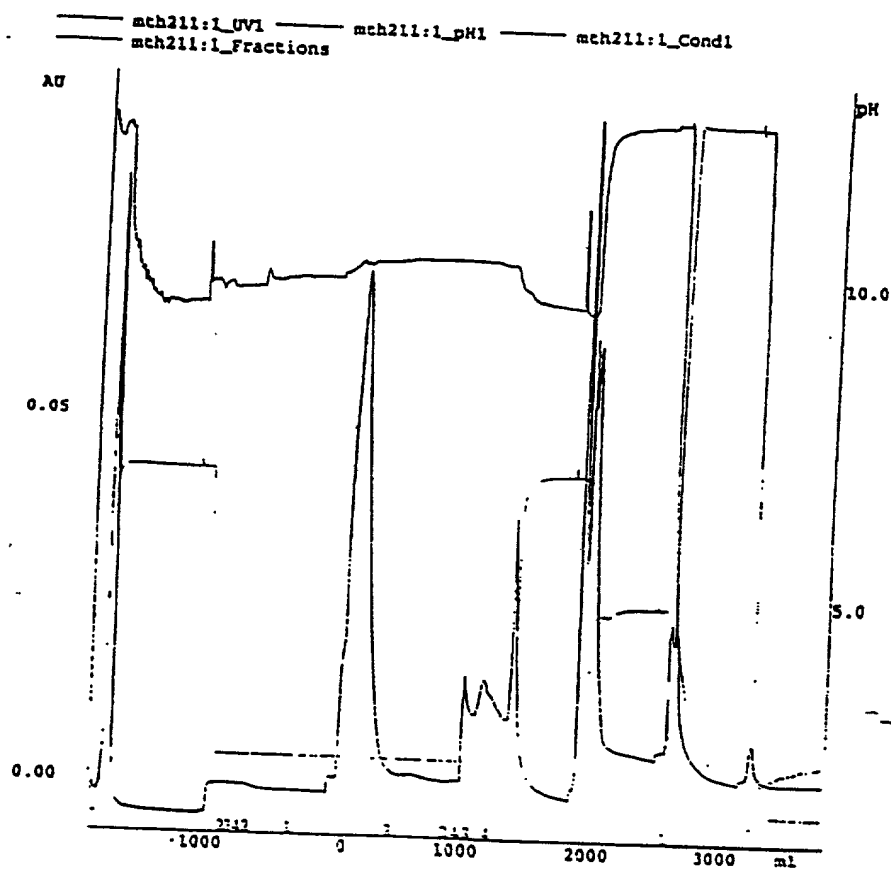


FIG. 14

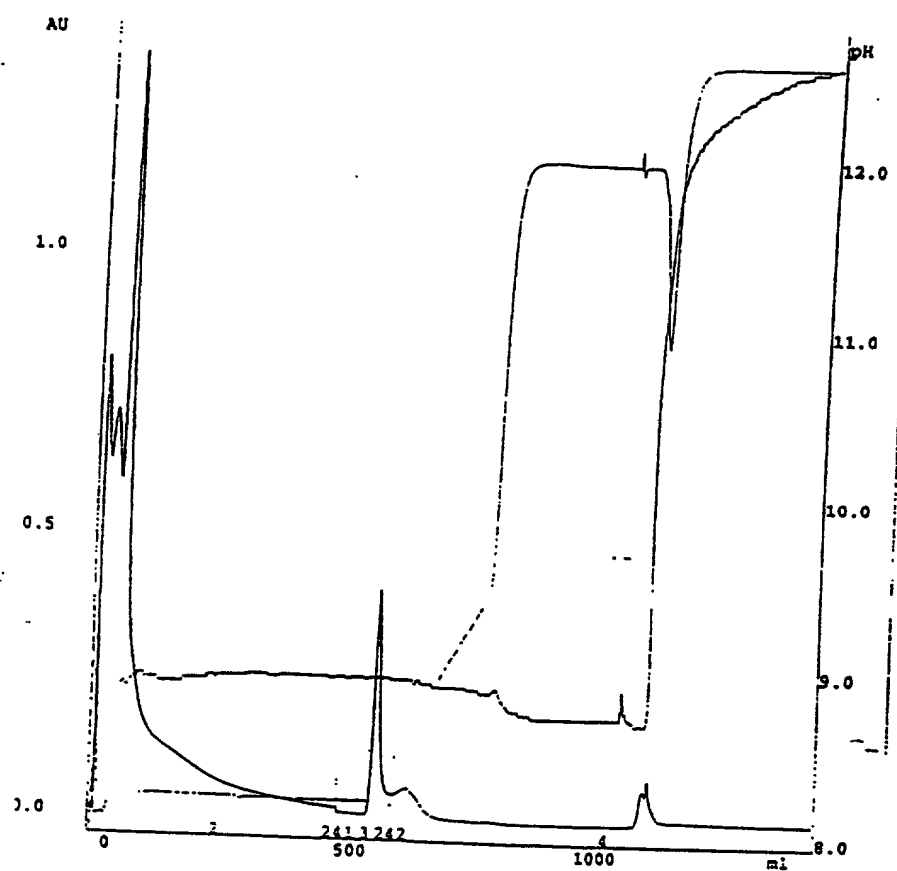
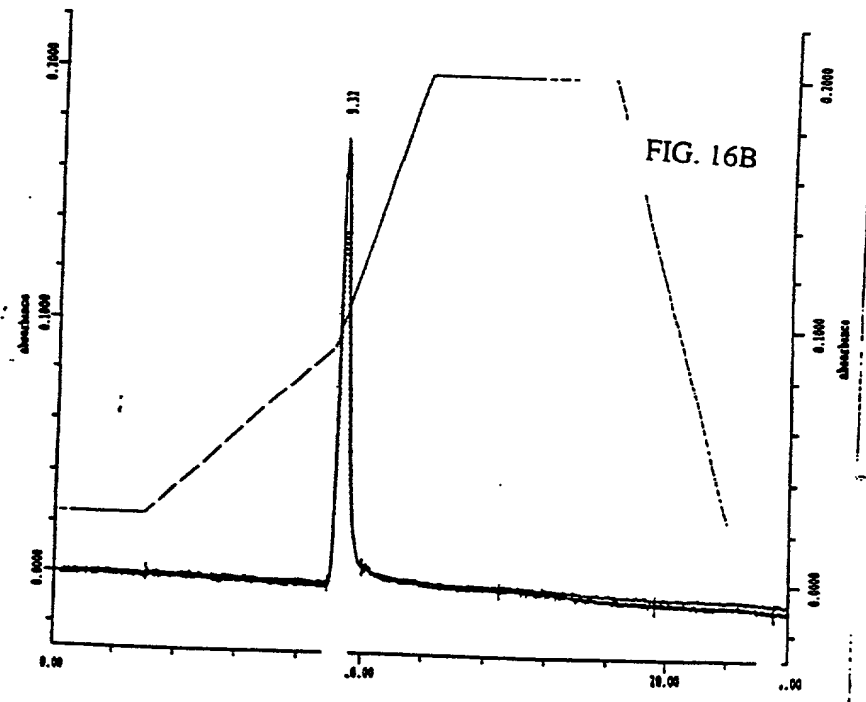
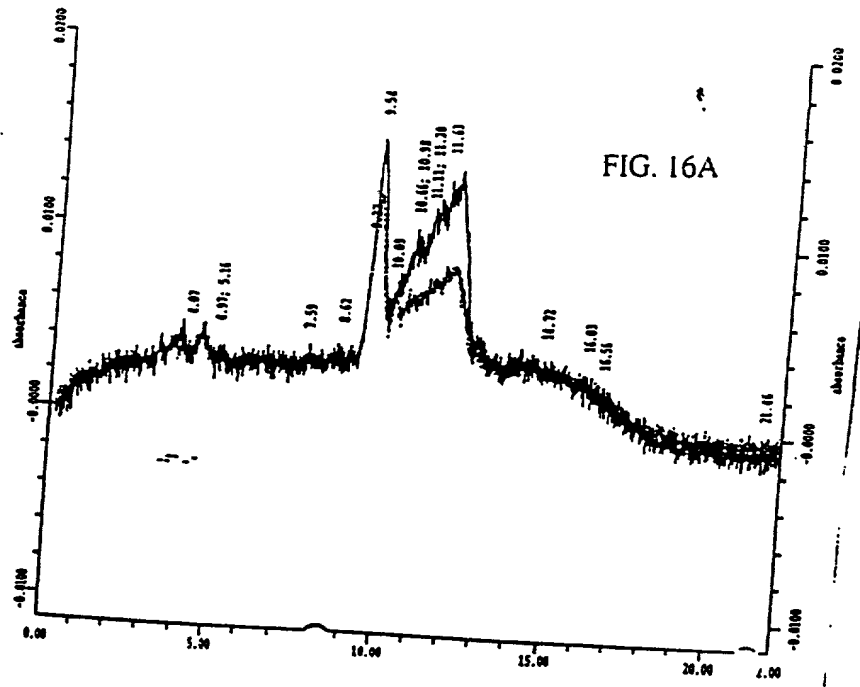


FIG. 15



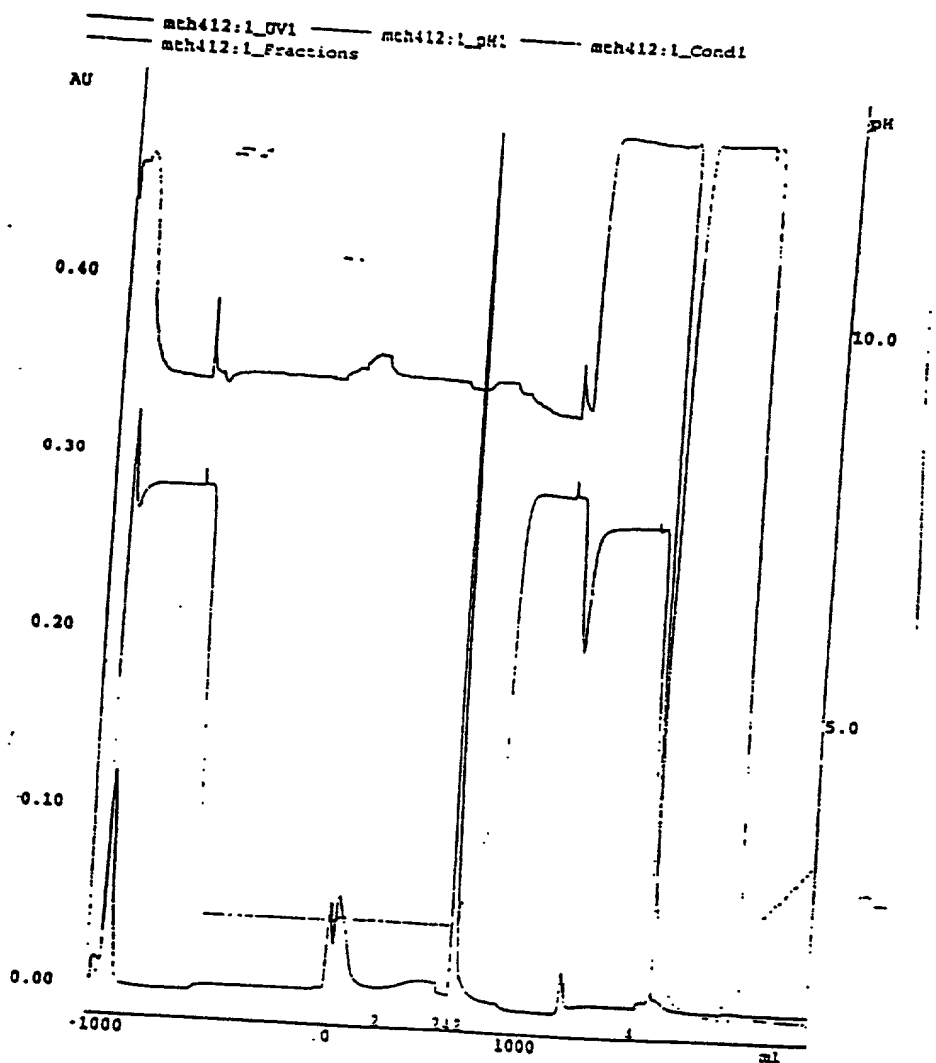


FIG. 17

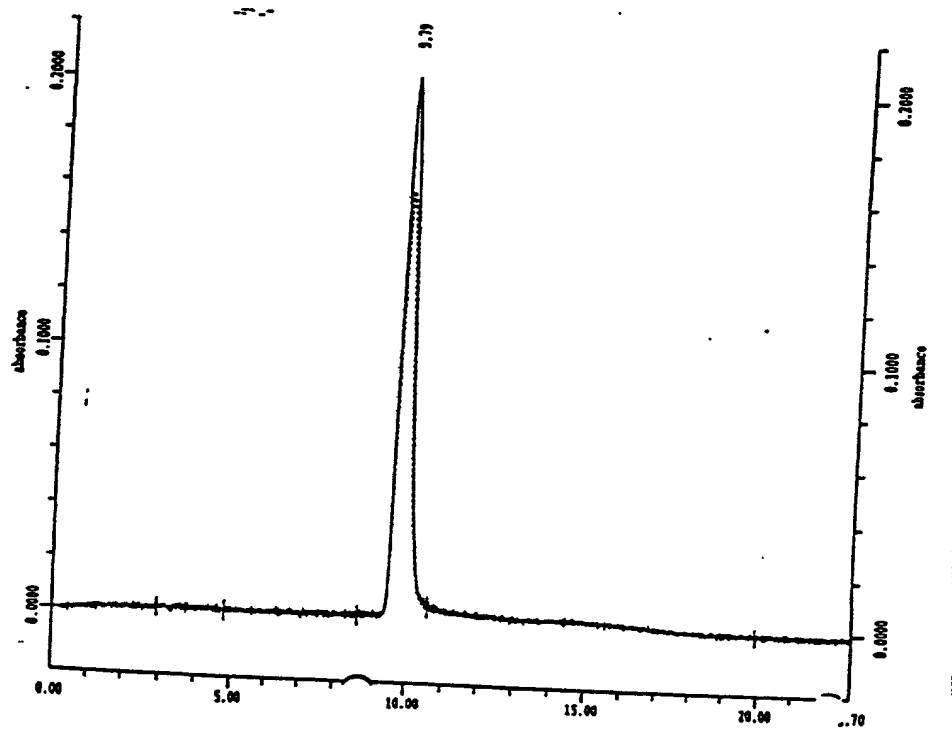


FIG. 18

FIG. 19A



Tween-20 harvest

Conc. Tween-20 harvest

Flow thru

IEC purified Adp53

IEC purified Adp53

IEC purified Adp53

Conc. IEC purified Adp53

Conc. IEC purified Adp53

Defective virus

CsCl purified Adp53

MWM

97

66

45

31

21.5

14



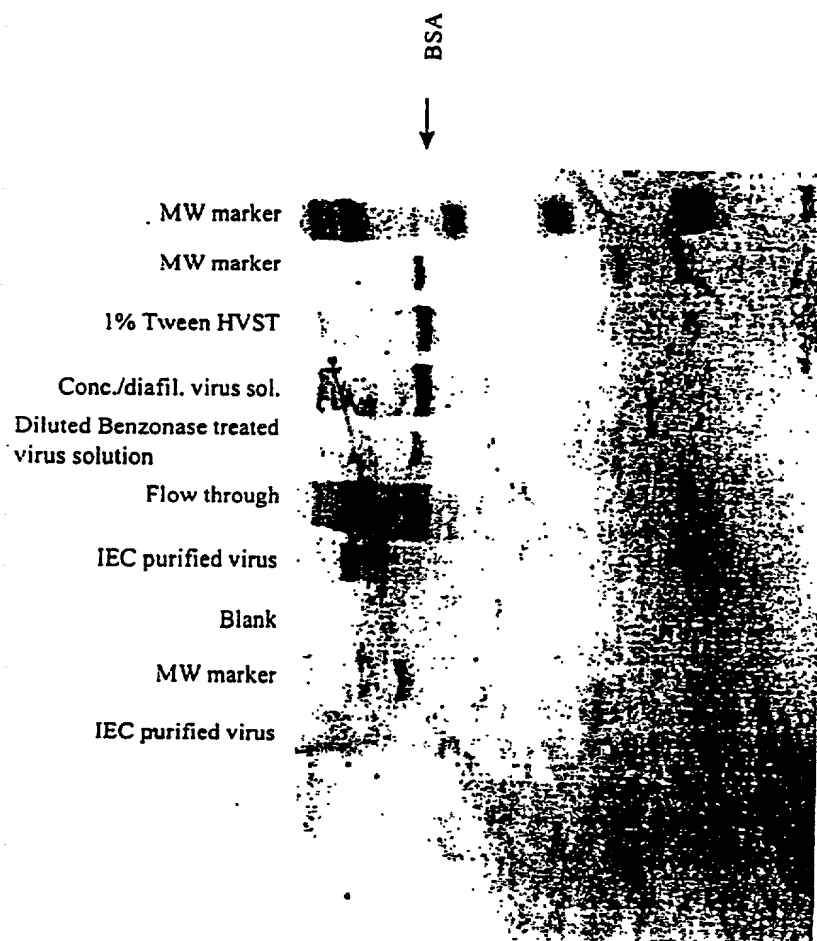


FIG. 19B

Figure 19C shows the results of a Western blot analysis of the expression of the protein encoded by the gene in the cells. The cells were treated with the compound for 24 hours. The results show that the compound induces the expression of the protein in a dose-dependent manner. The lanes are labeled 1 through 9, corresponding to the different concentrations of the compound.

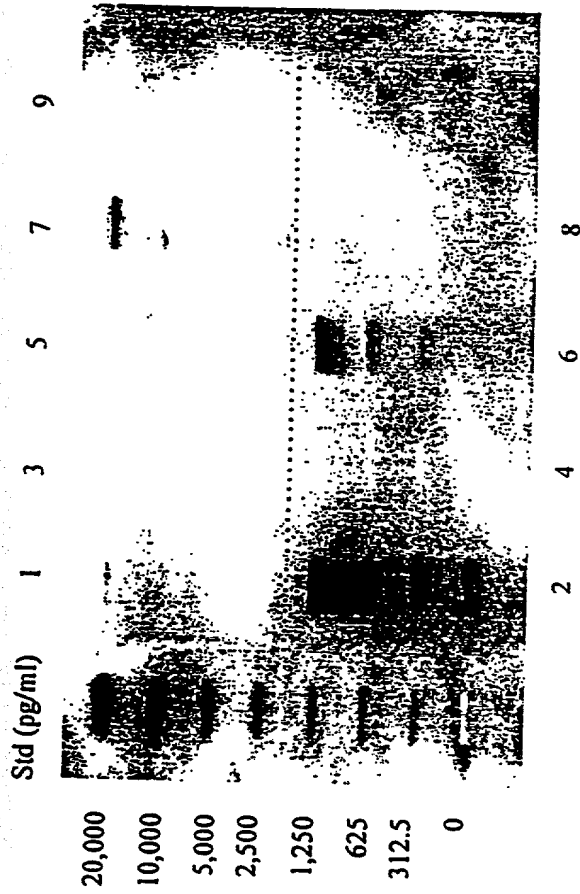
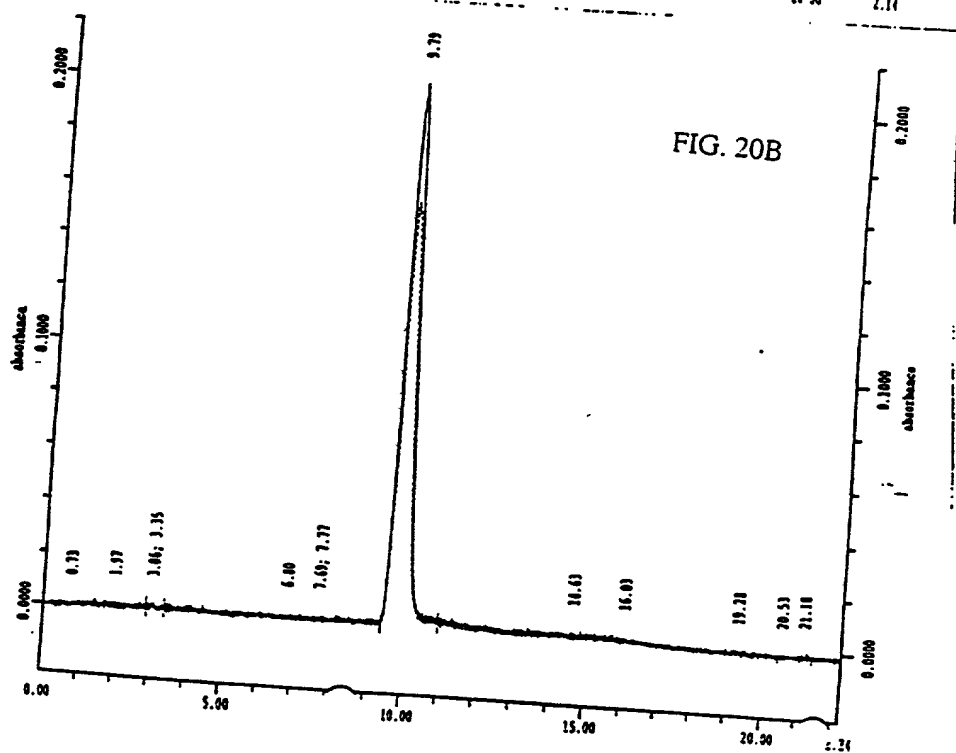
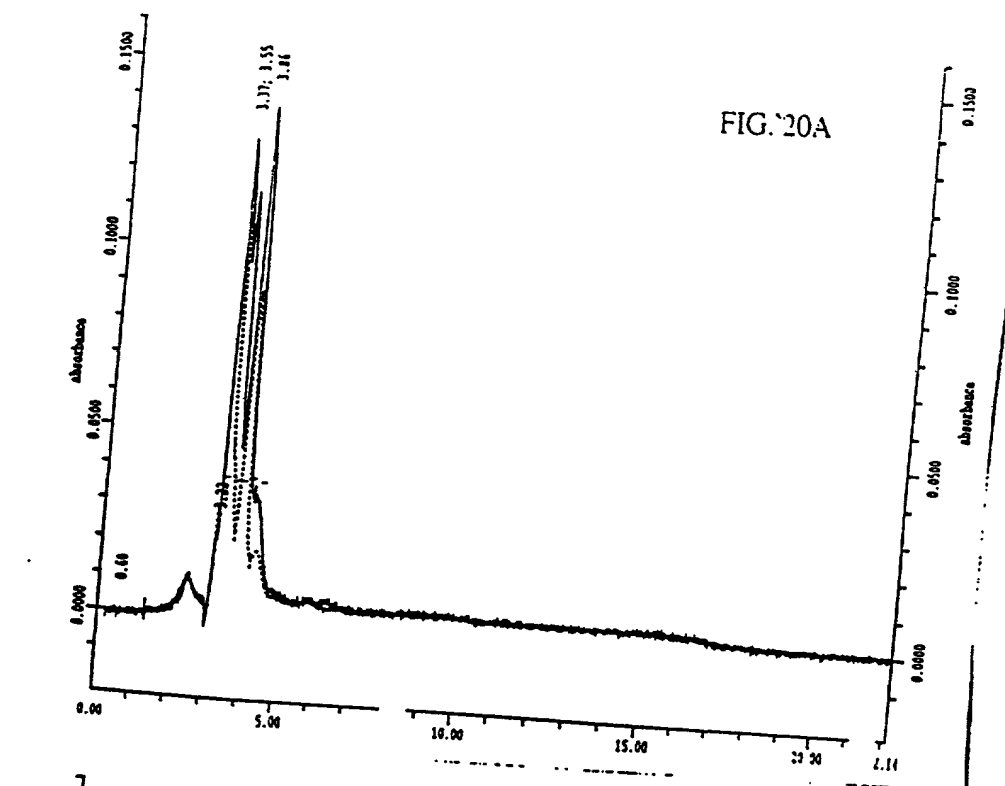
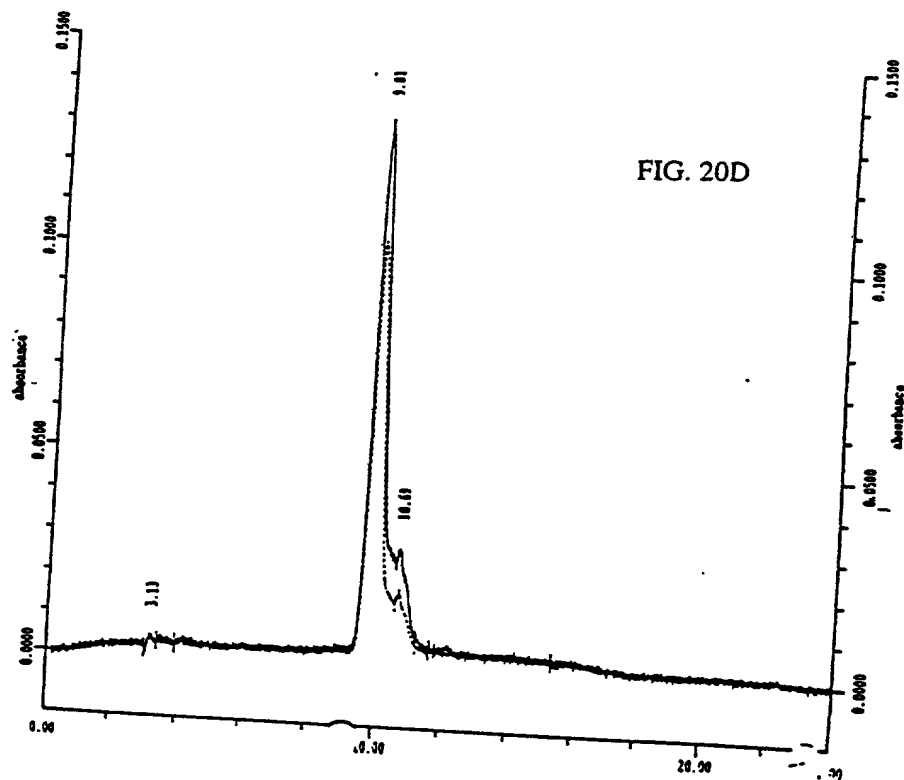
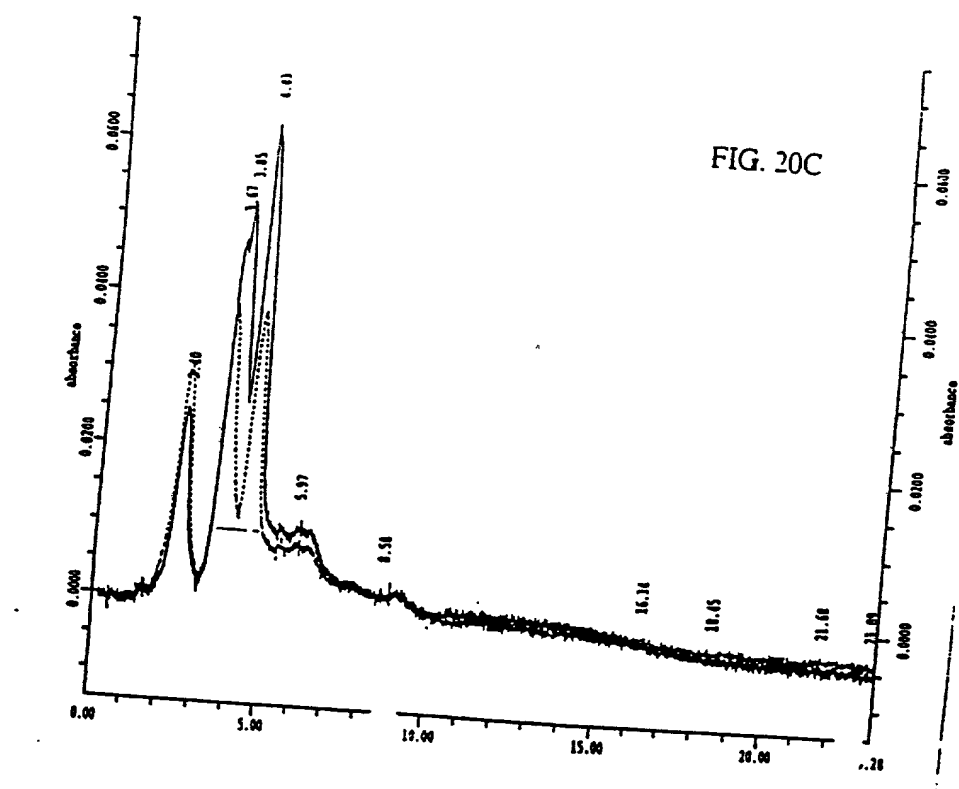
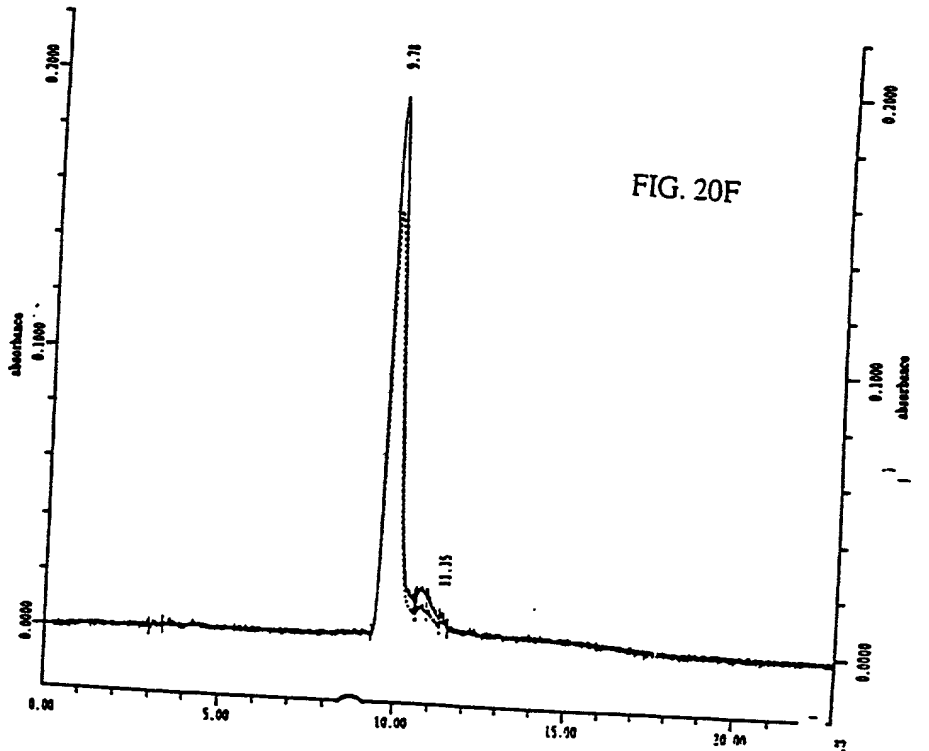
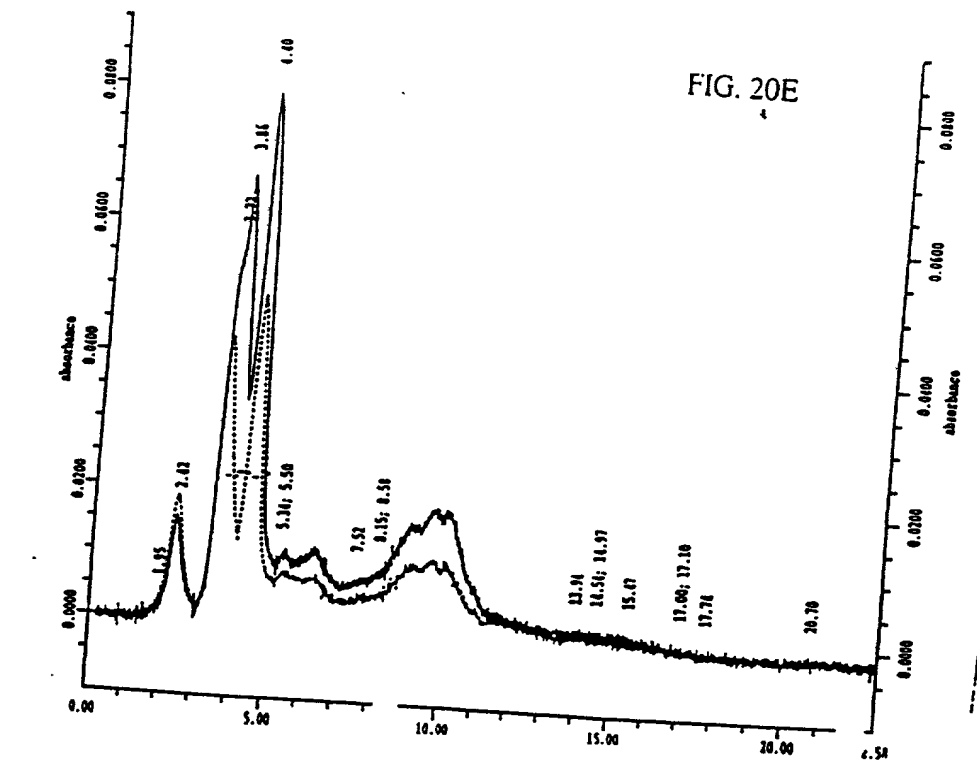


FIG. 19C





0.0000 0.0100 0.0200 0.0300 0.0400 0.0500 0.0600 0.0700 0.0800 0.0900 0.1000



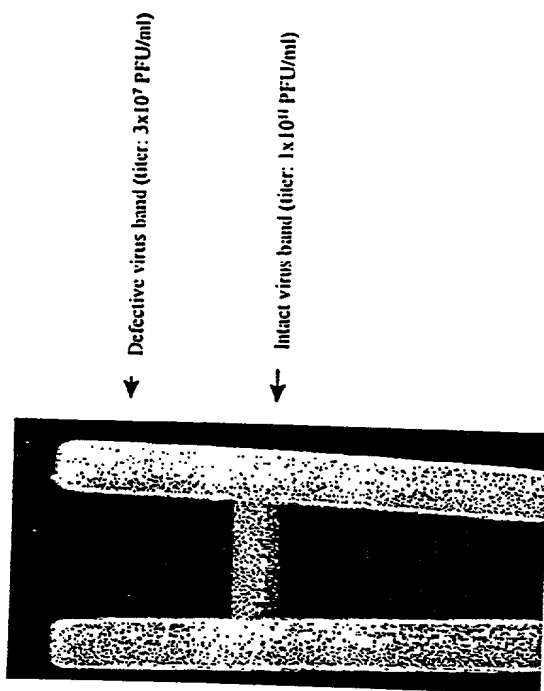
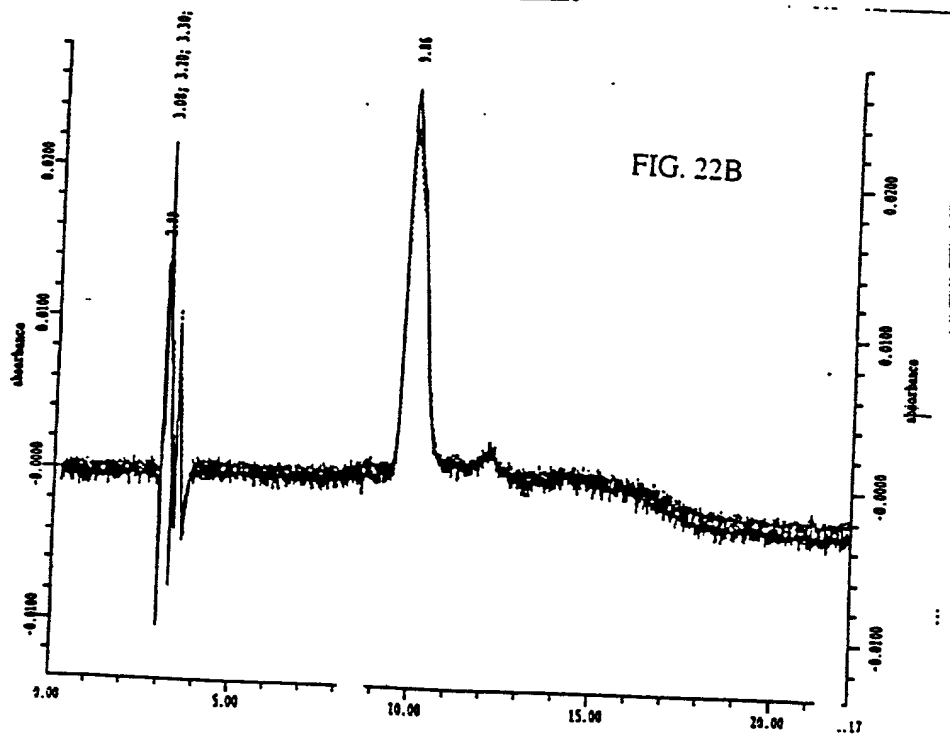
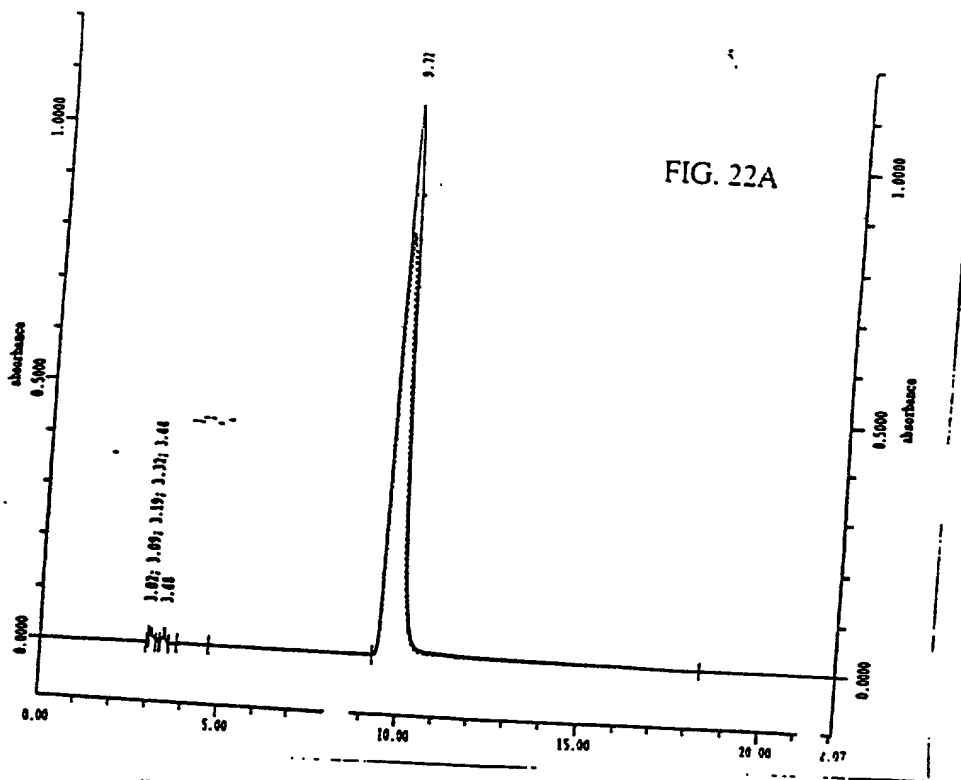


FIG. 21

10-0000 0.0000 0.5000 1.0000 1.5000 2.0000 2.5000 3.0000 3.5000 4.0000 4.5000 5.0000 5.5000 6.0000 6.5000 7.0000 7.5000 8.0000 8.5000 9.0000 9.5000 10.0000 10.5000 11.0000 11.5000 12.0000 12.5000 13.0000 13.5000 14.0000 14.5000 15.0000 15.5000 16.0000 16.5000 17.0000 17.5000 18.0000 18.5000 19.0000 19.5000 20.0000 20.5000 21.0000 21.5000 22.0000 22.5000 23.0000 23.5000 24.0000 24.5000 25.0000 25.5000 26.0000 26.5000 27.0000 27.5000 28.0000 28.5000 29.0000 29.5000 30.0000 30.5000 31.0000 31.5000 32.0000 32.5000 33.0000 33.5000 34.0000 34.5000 35.0000 35.5000 36.0000 36.5000 37.0000 37.5000 38.0000 38.5000 39.0000 39.5000 40.0000 40.5000 41.0000 41.5000 42.0000 42.5000 43.0000 43.5000 44.0000 44.5000 45.0000 45.5000 46.0000 46.5000 47.0000 47.5000 48.0000 48.5000 49.0000 49.5000 50.0000 50.5000 51.0000 51.5000 52.0000 52.5000 53.0000 53.5000 54.0000 54.5000 55.0000 55.5000 56.0000 56.5000 57.0000 57.5000 58.0000 58.5000 59.0000 59.5000 60.0000 60.5000 61.0000 61.5000 62.0000 62.5000 63.0000 63.5000 64.0000 64.5000 65.0000 65.5000 66.0000 66.5000 67.0000 67.5000 68.0000 68.5000 69.0000 69.5000 70.0000 70.5000 71.0000 71.5000 72.0000 72.5000 73.0000 73.5000 74.0000 74.5000 75.0000 75.5000 76.0000 76.5000 77.0000 77.5000 78.0000 78.5000 79.0000 79.5000 80.0000 80.5000 81.0000 81.5000 82.0000 82.5000 83.0000 83.5000 84.0000 84.5000 85.0000 85.5000 86.0000 86.5000 87.0000 87.5000 88.0000 88.5000 89.0000 89.5000 90.0000 90.5000 91.0000 91.5000 92.0000 92.5000 93.0000 93.5000 94.0000 94.5000 95.0000 95.5000 96.0000 96.5000 97.0000 97.5000 98.0000 98.5000 99.0000 99.5000 100.0000



	Titer (PFU/ml)	Vol. (ml)	Yield (PFU)	Recovery (%)	
				Step	Acc.
Cube (low perfusion rate, keep glucose > 1g/L)					
↓ 1% Tween-20 in buffer A					
Harvest					
↓ Clarification and Filtration (0.22 um)					
Virus solution	2.6x10 <sup>9</sup>	1900	4.9x10 <sup>12</sup>		
↓ Conc./diaf. (10-fold conc., diaf. into 1M NaCl buffer A)					
Conc. sup	2.5x10 <sup>10</sup>	200	5x10 <sup>12</sup>	102%	
↓ Benzonase treatment (O/N, RT, 100u/ml)					
Treated sup					
↓ Dilute with water to conductivity = 22-25 mS/cm					
Diluted virus solution	7x10 <sup>9</sup>	700	4.9x10 <sup>12</sup>	98%	100%
↓					
Purified virus	1.5x10 <sup>10</sup>	240	3.6x10 <sup>12</sup>	73%	73%
↓ conc./diaf (5-fold conc.)					
Final purified product	7x10 <sup>10</sup>	50	3.5x10 <sup>12</sup>	97%	71%

FIG. 23